

DRILL HOLES

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BY: \$USER\$

PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE RELOCATION OF TRAFFIC SIGNAL EQUIPMENT (SIGNAL HEADS, MAST-ARM SIGN AND VIDEO DETECTOR AT THE INTERSECTION OF MD 231 AND J.W.WILLIAMS ROAD IN CALVERT COUNTY. MD 231 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION WILL OPERATE IN A NEMA FOUR-PHASE, FULLY ACTUATED MODE WITH THE MD 231 APPROACHES OPERATING CONCURRENTLY AND THE J.W.WILLIAMS ROAD APPROACH OPERATING ALONE.

EXCLUSIVE/PERMISSIVE LEFT-TURN LAG PHASING IS PROVIDED FOR EASTBOUND MD 231 APPROACH.

CONTROLLER REQUIREMENTS

NO CHANGES ARE PROPOSED FOR THE CONTROLLER OPERATIONS.

PROJECT CONTACTS

THE CONTACT PERSONS FOR SHA DISTRICT 5 ARE AS FOLLOWS:

MS. KIMBERLY TRAN
ASSISTANT DISTRICT ENGINEER - TRAFFIC
PHONE: (410) 841-1003

MR. JOHN MAYS
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
PHONE: (410) 841-1002

MR. JAMES FOLDEN
ASSISTANT DISTRICT ENGINEER - CONSTRUCTION
PHONE: (410) 841-1004

MR. MIKE HUBER
ASSISTANT DISTRICT ENGINEER - UTILITY
PHONE: (410) 841-1041

MR. RICHARD L. DAFF, SR.
CHIEF, TRAFFIC OPERATIONS DIVISION
PHONE: (410) 787-7630

MR. ROBERT SNYDER
ASST. DIV. CHIEF, TRAFFIC OPERATIONS DIVISION
PHONE: (410) 787-7631

MR. EDWARD RODENHEISER
TEAM LEADER, SIGNAL OPERATIONS
PHONE: (410) 787-7652

MR. EUGENE BAILEY
TEAM LEADER, SIGN OPERATIONS
PHONE: (410) 787-7652

CALVERT COUNTY DEPT. OF PUBLIC WORKS
TERRY P. CARLSON, DIRECTOR
PHONE: (410) 535-2204

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY SHA

| CAT. CODE NO. | QUANTITY | DESCRIPTION |
|---------------|----------|-------------|
| NONE | NONE | NONE |

EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR

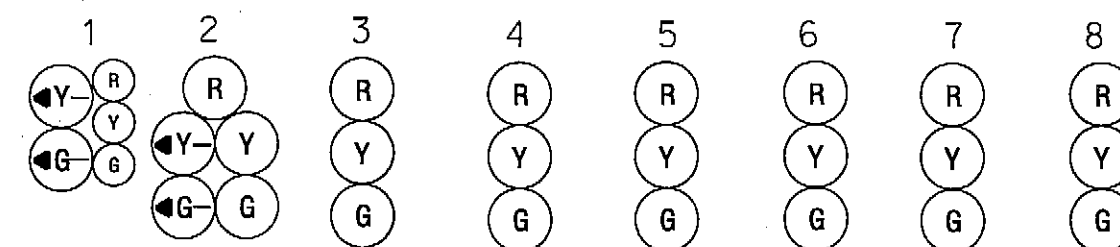
| CAT. CODE NO. | QUANTITY | DESCRIPTION |
|---------------|----------|--|
| 585424 | 62 LF | 24 INCH WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS |
| 810605 | 1 EA | NONINVASIVE DETECTOR, 1000 FOOT LEAD IN CABLE |
| 860265 | 2 EA | RELOCATE SIGNAL HEAD |
| 800000 | 1 EA | RELOCATE VIDEO DETECTION CAMERA |
| 813006 | 10 SF | RELOCATE SIGNS FROM EXISTING OVERHEAD STRUCTURES |
| 811001 | 1 EA | FURNISH AND INSTALL ELECTRICAL HANDHOLE |
| 805115 | 100 LF | 3 INCH SCHEDULE 80 RIGID PVC CONDUIT-BORED |

EQUIPMENT LIST "C"

C. EQUIPMENT TO BE REMOVED AND RETURNED TO SHA

NONE

PHASE CHART

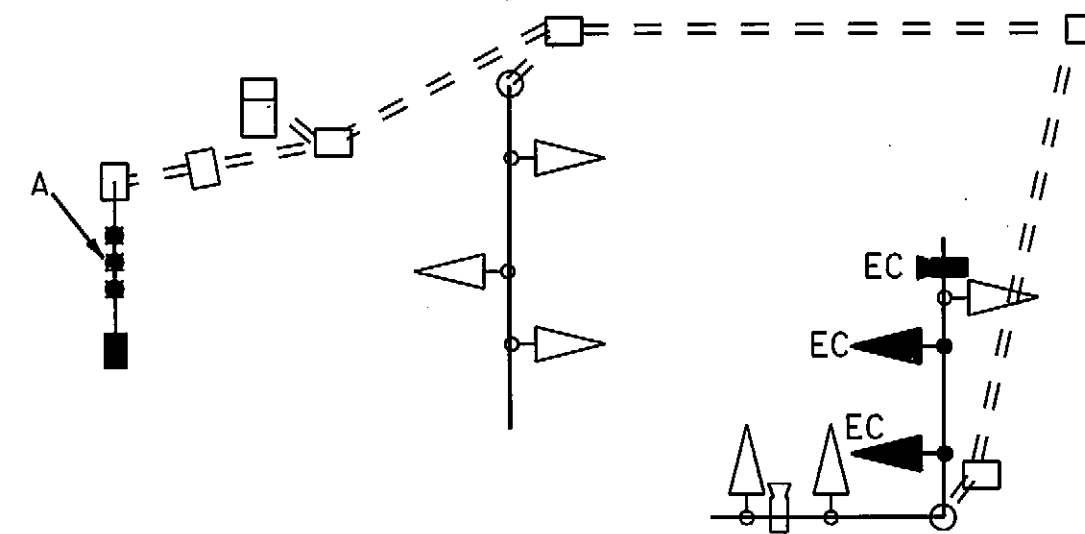


| | | | | | | | | | |
|--------------------|------|------|------|------|------|------|------|------|--|
| PHASE 2 + 6 | G | G | G | G | G | G | R | R | |
| 2 + 6 CHANGE | G | G | G | Y | Y | Y | R | R | |
| PHASE 1 + 6 | G | G | G | R | R | R | R | R | |
| 1 + 6 CHANGE | Y | Y | Y | R | R | R | R | R | |
| PHASE 4 | R | R | R | R | R | R | G | G | |
| 4 CHANGE | R | R | R | R | R | R | Y | Y | |
| FLASHING OPERATION | FL/Y | FL/Y | FL/Y | FL/Y | FL/Y | FL/Y | FL/R | FL/R | |

WIRING DIAGRAM

WIRING KEY

- EC EXISTING CABLE
- A NONINVASIVE DETECTOR LEAD-IN



STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
MD 231 AT J.W.WILLIAMS ROAD
CALVERT COUNTY, MARYLAND

GENERAL INFORMATION SHEET

SCALE: AS NOTED DATE: DECEMBER 7, 2010 CONTRACT NO. CA340576

DESIGNED BY: LBZW COUNTY: CALVERT
DRAWN BY: LBZW LOGMILE: 04023140.33
CHECKED BY: ORGMFO TMS NO.: J107
F.A.P. NO.: SEE TITLE SHEET TOD NO.:

TS NO.: TS-4525A DRAWING 1 OF 1 SHEET NO. 24 OF 26

O. R. GEORGE & ASSOCIATES, INC.
Traffic Engineers - Transportation Planners
10210 Greenbelt Road, Suite 310
Lanham, MD 20706
(301) 794-7700

PLOTTED: 6/24/10 \$
FILE: #107 \$